PRESET CAPTURE FOR A VEHICLE ENVIRONMENT MANAGEMENT SYSTEM

CROSS-REFERENCE TO RELATED APPLICATION

[0001] This application claims the benefit of U.S. Provisional Application No. 62/704,790, filed May 28, 2020, which is incorporated herein by reference in its entirety.

TECHNICAL FIELD

[0002] Embodiments of the present invention generally relate to aircraft environment management systems, and more particularly relate to aircraft environment management systems that store current settings as a preset for subsequent recall by a user.

BACKGROUND OF THE INVENTION

[0003] Modern business aircraft typically include a well-appointed passenger cabin for the safety and comfort of aircraft passengers. Within the passenger cabin, various environmental factors define a passenger's flight experience while traveling in the aircraft. For example, the cabin temperature, lighting and media selections may make a more enjoyable flight experience. Accordingly, such environmental factors are typically designed to be adjustable/selectable by the passengers so that they can provide the experience they desire. While useful, contemporary cabin management systems lack the ability to create user-defined presets for environmental factors in an easy and convenient manner.

[0004] Accordingly, it is desirable to provide an aircraft environment system that offers passenger(s) the ability to easily select, save, and recall presetting for some or all of the environmental factors for an aircraft. Other desirable features and characteristics will become apparent from the subsequent summary and detailed description and the appended claims, taken in conjunction with the accompanying drawings and the foregoing technical field and background.

SUMMARY

[0005] The disclosed embodiments relate to an aircraft environment management system with a preset capture feature to recall various cabin environment settings.

[0006] In a first non-limiting embodiment, an aircraft includes a passenger cabin, a plurality of settable cabin environment systems, and an aircraft environment management system. The passenger cabin has an environment. The plurality of settable cabin environment systems are in operable communication with the passenger cabin and each control an aspect of the environment based on a setting. The aircraft environment management system is in electronic communication with the plurality of settable cabin environment systems and is programmed to: receive a preset capture request from a user; store, as an environment preset, the respective setting as it existed for each of the plurality of settable cabin environment systems at a time of receipt of the preset capture request; receive a preset recall request for the environment preset; and recall the environment preset by adjusting the respective setting of each of the plurality of settable cabin environment systems according to the environment preset.

[0007] In a second non-limiting embodiment, an aircraft environment management system for controlling a plurality of settable cabin environment systems each controlling an aspect of an aircraft cabin environment based on a setting includes a memory and a processor in electronic communication with the memory. The processor cooperates with the memory such that the aircraft environment management system is programmed to: receive a preset capture request from a user; store, as an environment preset, the respective setting as it existed for each of the plurality of settable cabin environment systems at a time of receipt of the preset capture request; receive a preset recall request for the environment preset; and recall the environment preset by adjusting the respective setting of each of the plurality of settable cabin environment systems according to the environment preset.

[0008] In a third non-limiting embodiment, an environmental factor preset capturing technique for an aircraft cabin includes: receiving a preset capture request from a user; storing a current setting of at least one environmental factor for each of a plurality of settable aircraft cabin environment control systems as an environment preset in response to receipt of the preset capture request; receiving a preset recall request from the user; and adjusting the at least one environmental factor for each of the plurality of settable aircraft cabin environment control systems based on the environment preset in response to receipt of the preset recall request.

DESCRIPTION OF THE DRAWINGS

[0009] Embodiments of the present invention will hereinafter be described in conjunction with the following drawing figures, wherein like numerals denote like elements, and

[0010] FIG. **1** is a view of an aircraft in which the disclosed embodiments can be implemented in accordance with a non-limiting embodiment.

[0011] FIG. **2** is a block diagram of an environmental management system in accordance with a non-limiting embodiment.

[0012] FIGS. **3**A and **3**B are illustrations of mobile devices running an application for capturing a preset in accordance with a non-limiting embodiment.

[0013] FIG. **4** illustrates a method of the disclosure in accordance with a non-limiting embodiment.

[0014] FIG. **5** illustrates a method of saving, editing, and recalling a environment preset in accordance with a non-limiting embodiment.

DESCRIPTION OF EXEMPLARY EMBODIMENTS

[0015] As used herein, the word "exemplary" means "serving as an example, instance, or illustration." The following detailed description is merely exemplary in nature and is not intended to limit the invention or the application and uses of the invention. Any embodiment described herein as "exemplary" is not necessarily to be construed as preferred or advantageous over other embodiments. All of the embodiments described in this Detailed Description are exemplary embodiments provided to enable persons skilled in the art to make or use the invention and not to limit the scope of the invention which is defined by the claims. Furthermore, there is no intention to be bound by any expressed or implied theory presented in the preceding technical field, background, brief summary or the following description.